

Abstract of the Disclosure

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The present invention provides a method,
5 communication system, and Internet Call Waiting/Holding
(ICW/H) server for providing internet call waiting
service without dropping the connection between a
computer and an Internet Service Provider (ISP). A
computer, via a modem or the like, initiates an internet
10 call waiting connection between the computer and the ISP
via a switch. The ISP assigns a dynamic Internet
Protocol (IP) address to the computer for the internet
call waiting connection. The computer sends the
directory number and the dynamic IP address of the
15 computer to an Internet Call Waiting/Holding (ICW/H)
server, which stores them. The ICW/H server sends a
message to the switch indicating that the call waiting
service is active. The switch, upon receiving an
incoming call request intended for the computer while the
20 internet call waiting connection is active, routes the
incoming call request to the ICW/H server. The ICW/H
server alerts the computer of the incoming call request
without dropping the internet call waiting connection.